

***Project Report's Synopsis***  
***On behalf of***

**NORTHERN INDIA ENGINEERING COLLEGE**

**Faizabad Road, Lucknow – (U.P.)**

**ON THE TOPIC**

**“ONLINE MOVIE TICKET BOOKING  
SYSTEM”**



**SUBMITTED BY:**

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## **ABOUT THE PROJECT**

**Project title:** E-ticket system for cinema halls

**Statement of project:**

- This project is aimed to provide the customers facility to book tickets for cinema halls online, through which they can book tickets anytime , anywhere.
- E-ticket system is basically made for providing the customer an anytime and anywhere service for booking the seat in the cinema hall and to gather information about the movies online. The user can easily be able to know about the movies released and then make the choice.
- In this project, we will illustrate our system by providing DFD on some functions. And we will also provide some process description and data dictionary.
- Admin can use the system to insert and delete data (e.g. film description, time table) which will update the webpage (webpage are dynamic page, changing according to the data

in database). Also, admin can check the statistic information from the system.

## **OBJECTIVE OF THE PROJECT**

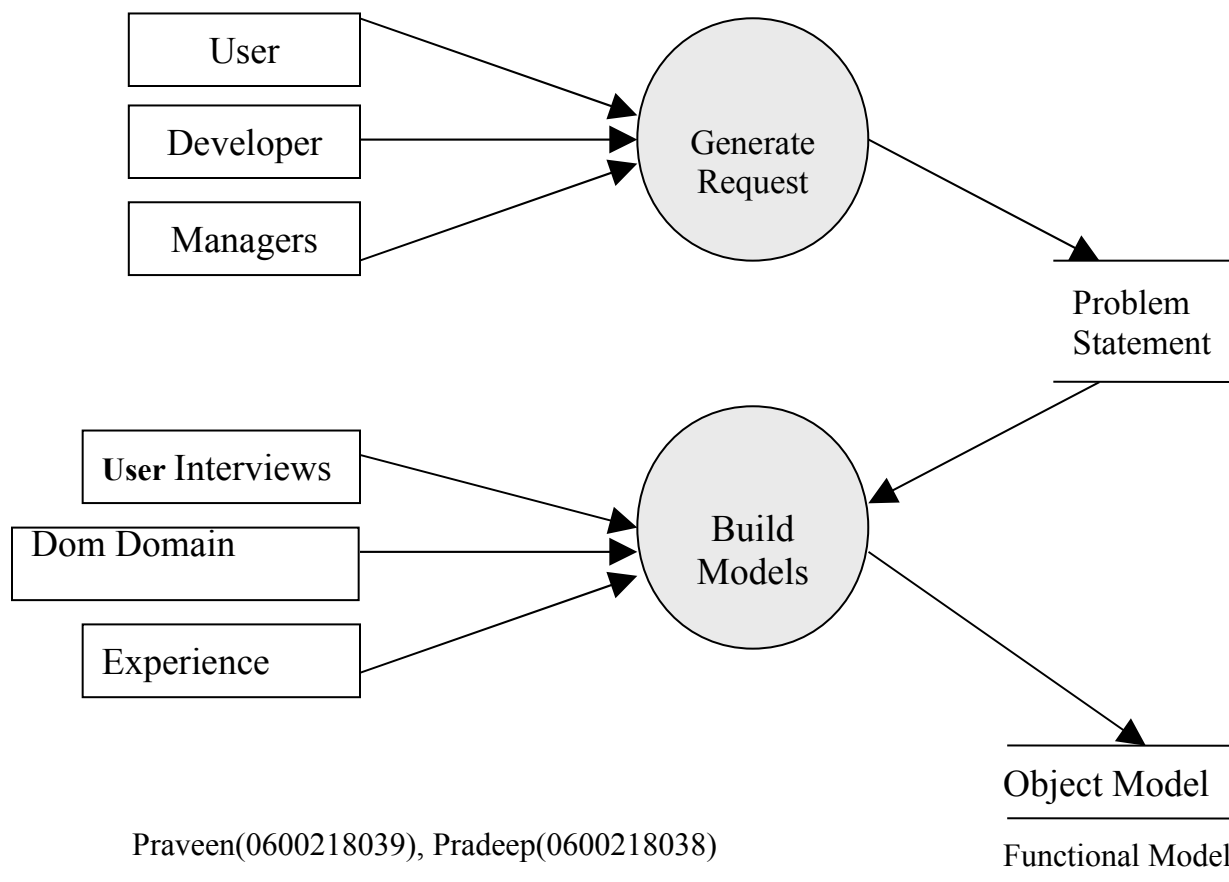
- The main purpose of our online ticket booking system is to provide another way for the customer to buy cinema ticket. It is an automatic system.
- After inserting the data to database, staff need not to deal with the order received through the system. In fact, there is similar system on the internet, but there is no refund method found in the existing system.
- This system is basically aimed to provide the customer the complete information of the movie, according to which the customer can book the tickets and the refund facility provides more flexibility to the system.
- The goals of our system are:
  - 1 To provide a anytime anyplace service for the customer
  - 2 To minimize the number of staff at the ticket box
  - 3 To promote the film on the internet

4 To increase the profit

To obtain statistic information from the booking record

## Identification of Need

- If system, which is going to be developed, is complex in nature the goals of the entire system could not be easily comprehended. Hence the need for a more rigorous system analysis phase arose.



## **Figure 1 : System Analysis Phase**

### **Problem Analysis**

- The basic aim of problem analysis is to obtain clear understanding of the needs of the clients and the users, what exactly is desired from the software, and what the constraints on the solution are. Analysis leads to the actual specification.

### **Problem Analysis Approaches**

- There are three basic approaches to problem analysis.
  1. Informal Approach.
  2. Conceptual modeling-based Approach
  3. Prototyping Approach.
- In this project we use Conceptual modeling-based Approach to understand the exact requirement of the organization

## **Preliminary Evolution**

- The preliminary investigation starts as soon as someone either a user or a member of a particular department recognizes a problem or initiates a request, to modify the current computerized system, or to computerize the current manual system.
- An important outcome of the preliminary investigation is determining whether the system is feasible or not.

## **Project Scheduling**

### **GANTT CHART**

- Gantt chart is also known as Time Line Charts. A Gantt chart can be developed for the entire project or a separate chart can be developed for each function.

- A tabular form is maintained where rows indicate the tasks with milestones and columns indicate duration (weeks/months).
- The horizontal bars that spans across columns indicate duration of the task.

Task	January	February	March	April	May
Requirement specification and Analysis					
Design					
Test Cases					
Coding with unit testing					
Testing					
Documentation					

### **Administrator section:**



- This section can be accessed by providing administrator password. In this section the administrator can save the information related to movie,seats,booking,payment etc.
- In this section the administrator can edit the information related to movie,seats,booking,payment etc.

### **Customer section:**

- Customer can view the movie rating which will help them to choose the movie.
- Customer can book the movie tickets by selecting the seats of his/her choice.
- Customer can pay for tickets online by credit card.

### **Non Functional Requirements :**

- It consists of following parameters :-

**Reliability** : The system will consistently perform its intended function.

For eg. The important information must be validated.

**Efficiency** : Unnecessary data will not be transmitted on the network and database server will be properly connected.

**Reusability** : The system can be reused in any organization or site of the same group, by defining the organization master definition under software license agreement.

**Integrity** : Only System Administrator has rights to access the database, not every user can access all the information. Each user will be having rights to access the modules.

## **Used Tools And Plateform**

### **Software Specification:**

#### **Front-end Tool: - Microsoft ASP.NET 2.0**

- User friendly
- Low Cost Solution

- GUI feature
- Better designing aspects

**Back-end Tool: - Microsoft SQL Server 2005**

- Security
- Portability
- Quality

**Platform**

Windows platform like: 2000 professional, XP & Vista

**Hardware Specification:**

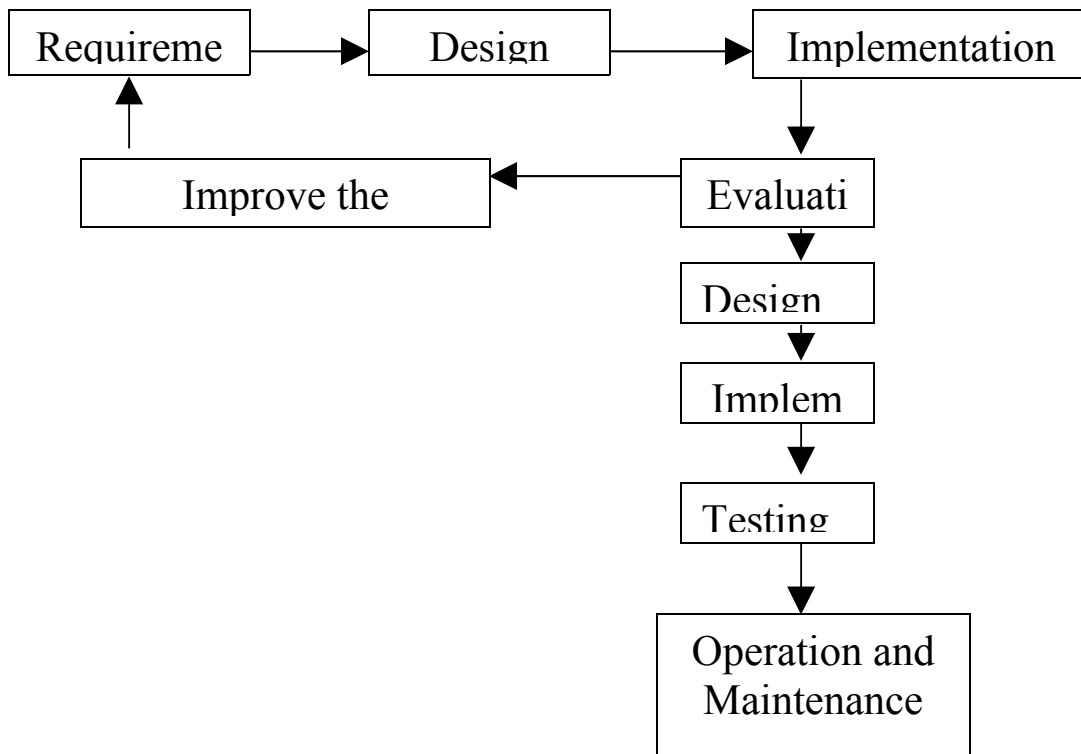
- Intel Pentium and Celeron class processor
- Processor Speed – 1.2 GHz or above
- RAM - 512 MB
  
- HDD - 40 GB
- Monitor-14”SVGA
- Printer –Laser Printer
- Mouse- Normal
- Keyboard- Normal

## **SOFTWARE PROCESS MODEL**

### **Prototyping:**

- In this model we develop a working prototype with the available requirement details and get feedback of the customer for the actual requirement of the product to develop the product.
- Prototype is the trimmed version of the actual product with limited features and functionality and with low level of reliability.
- This was model followed while developing Production and Planning.

## The Prototyping Model



- Online booking System for movie is based on prototype model.

## Project Modules

## **Login Module**

This module is for both type of users(customers and admin).In this module according to the type of user(customer or admin) the further links and operations will be provided.

## **Customer Module**

- As soon as a visitor registers himself as a customer,the customer can now book the movie tickets and pay for them online.

## **Hall Module**

- This module deals with the information about the hall. There are several multiplexes and each of them has 4 halls and according to the vacancy of seats in the hall the booking takes place.

## **Booking Module**

- In this module movie ticket is booked for a customer. This module contains all the information related to booking. As soon as the customer request is complete, all the booking details are displayed to him.

## **Payment Module**

- This is the most important module because it deals with the payment of the tickets booked in the booking module. The customer can pay for the tickets before the show by cash payment and if he wants to pay online, he can pay for the tickets by credit card.

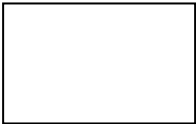
## **System Design**

- The design of the system is the most critical factor affecting the quality of the software; it has major impact on the later phases, particularly testing and maintenance. The output of this phase is the design document. This document is similar to blueprint or plan for the solution.
- The design activity is often divided into two phases: -

### **System design:**

- Aims to identify the modules that should be in the system, the specifications of these modules and how they interact with each other to produce the desired results.

- At the end of system design all the major data structures, file formats and the major modules in the system and their specifications are decided.

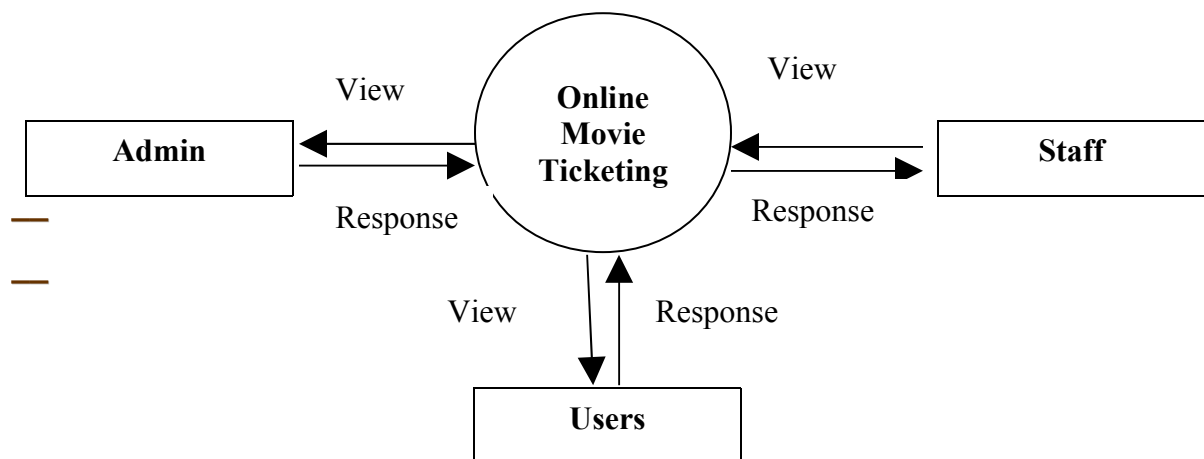
data  = Source or destination of

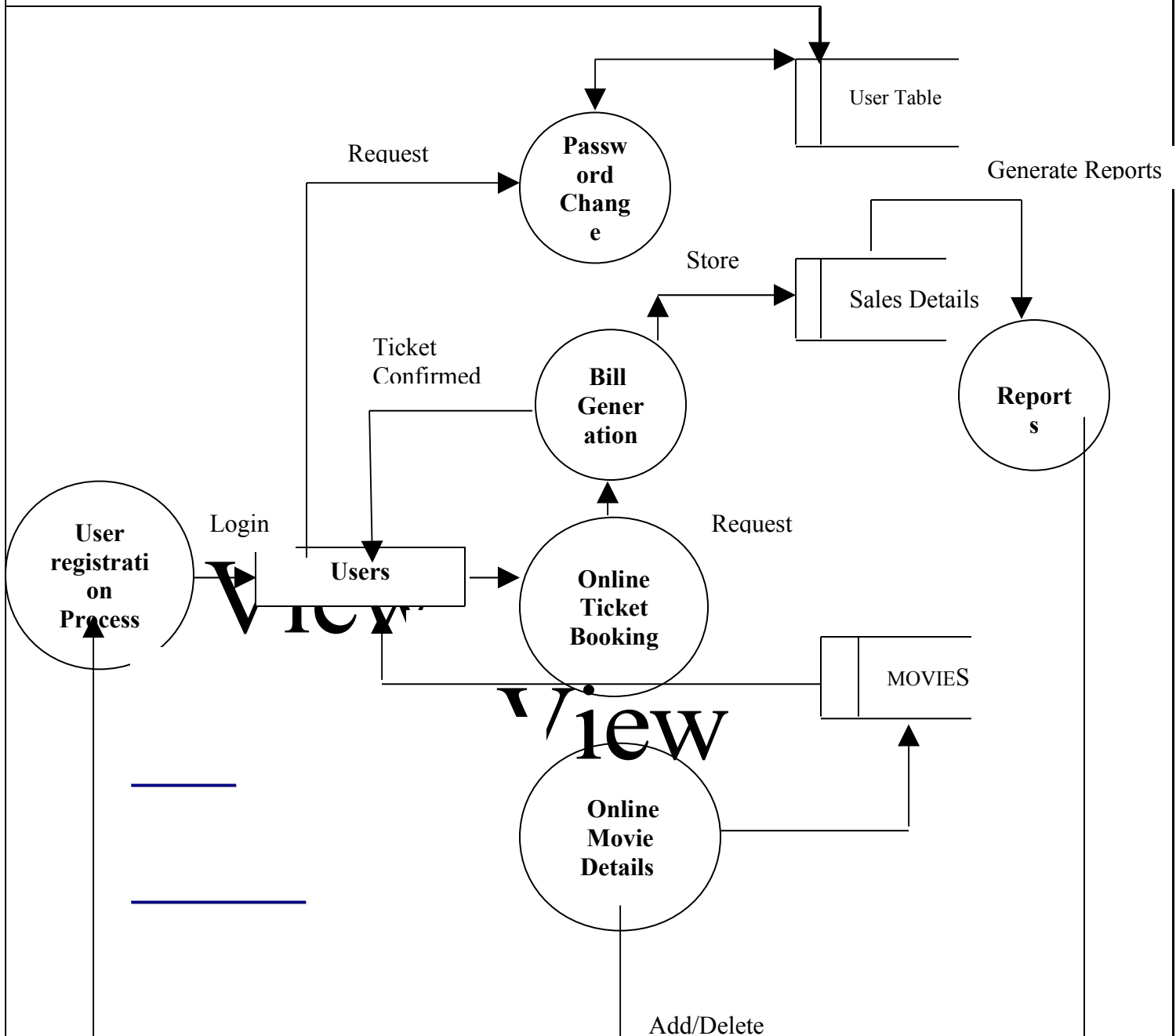
 = Data flow

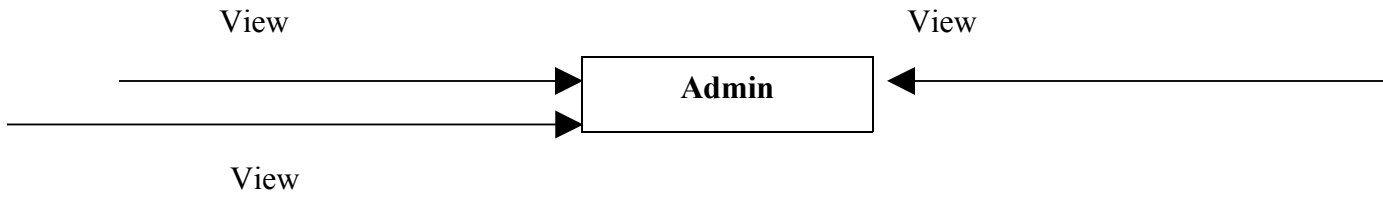
 = Process that  
transforms data

 Or  = Data store

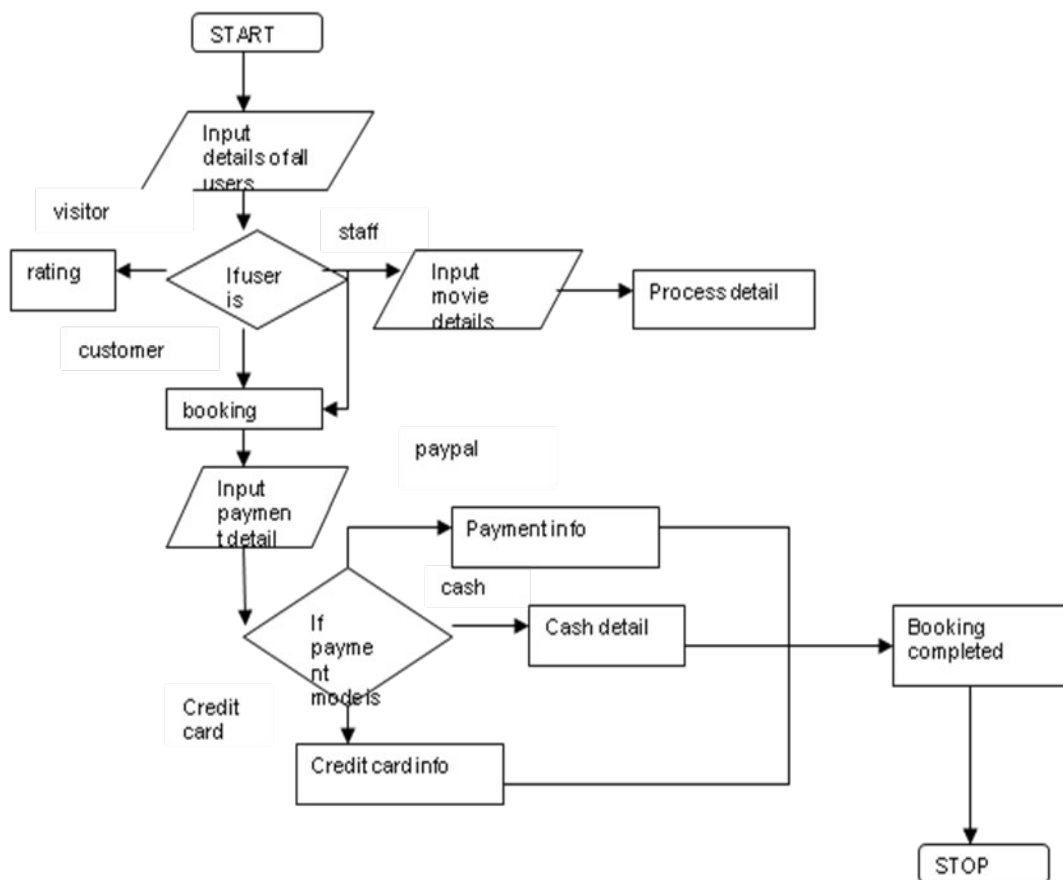


**0-Level DFD**

1-Level DFD



## FLOW CHART:



## **Physical Design**

### **DATABASE DESIGN**

- A database may be thought of as a set of related files. Related files mean that record of one file may be associated with the records in another file.
- The conventional file based systems emphasized that the application and files were built around it. The database environment emphasizes the data independently of the applications that use the data.
- The applications are allowed to evolve around a database design such that it can adapt to changing needs. Data becomes the central resource in the database environment.
- Information systems are built around this central resource to give flexible access to data.

### **Design of Database Table**

- The data to be used in the system are stored in various tables. The number of tables used & their structure are decided upon keeping in mind the logical relation in the data available.
- The database design specifies:

1. The various tables to be used
  2. Data to store in each table
  3. Format of the fields & their types
- We are using database of SQL Server.
- To create the database firstly we start the SQL Server. Firstly I've create the database 'bookticket' with the user dbo.

## **DATA STRUCTURE**

### **Tables in the database:**

#### **Table :**

#### **Credit information:**

<b>Attributes</b>	<b>Data type</b>
<b>Num of credit card</b>	<b>Number</b>
<b>Type</b>	<b>Varchar</b>
<b>Name</b>	<b>Varchar</b>
<b>User Id</b>	<b>Varchar</b>
<b>ExpDate</b>	<b>Varchar</b>
<b>Ticket</b>	<b>Number</b>
<b>Movie</b>	<b>Varchar</b>

**User Information:**

Attributes	Data type
First Name	Varchar
Last Name	Varchar
User Id	Varchar
Password	Varchar
Contact	Numeric
Hint Question	Varchar
Hint Answer	Varchar
E_mail Id	Varchar

**Booking:**

Attributes	Data type
Movie Id	Varchar
Name of movie	Varchar
Show Time	Varchar
Screen Id	Varchar

**Location:**

Attributes	Data type
ZipCode	Number
State	Varchar
City	Varchar
Street Address	Varchar
Country	Varchar
Theatre Id	Number

**Movie:**

Attributes	Data type
Movie Id	Varchar
Name of movie	Varchar
Detail	Varchar

**Screen:**

Attributes	Data type
Movie Id	Varchar
Screen Id	Varchar
Theatre Id	Varchar



**Theatre:**

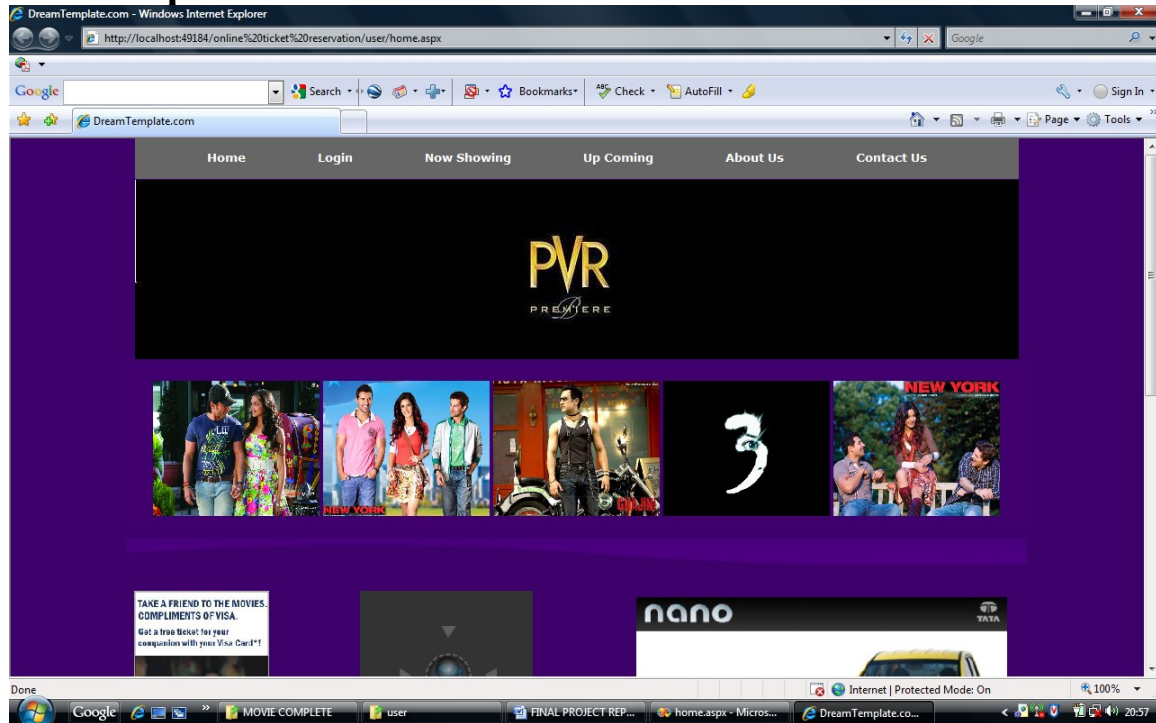
Attributes	Data type
Theatre Id	Varchar
Number of screen	Number
Name of theatre	Varchar

**Show time:**

Attributes	Data type
Movie Id	Varchar
Screen Id	Varchar
Theatre Id	Varchar

## SCREEN SHOTS

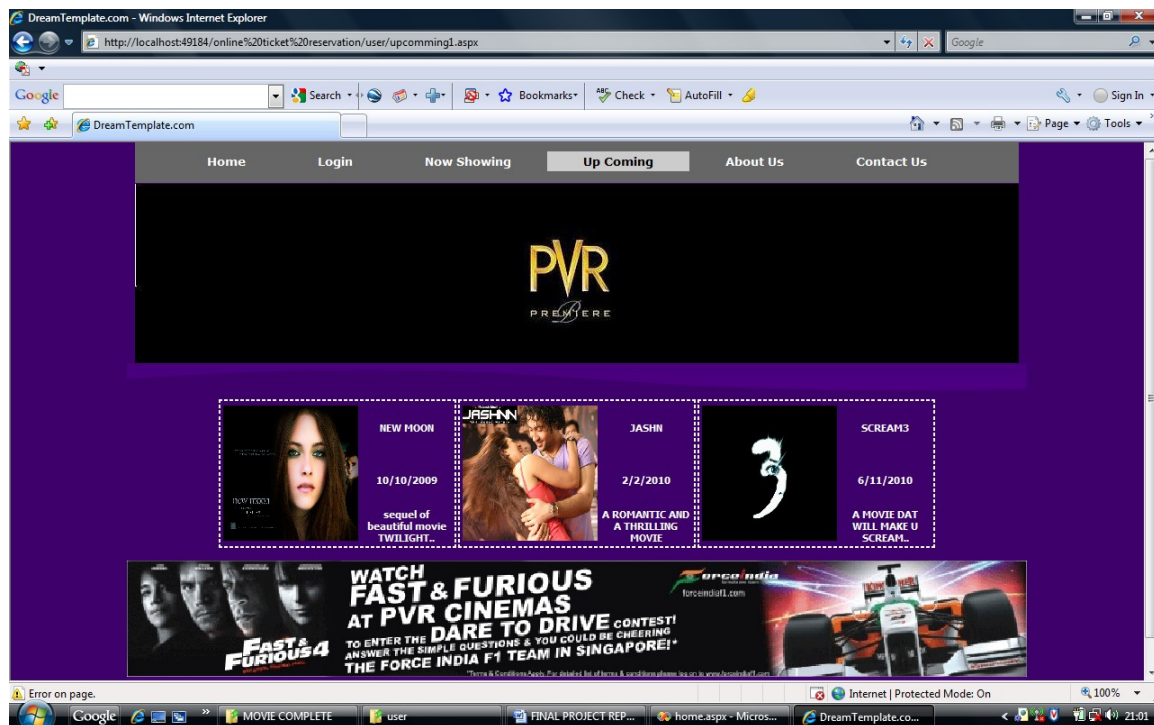
### Home.aspx



### Note:

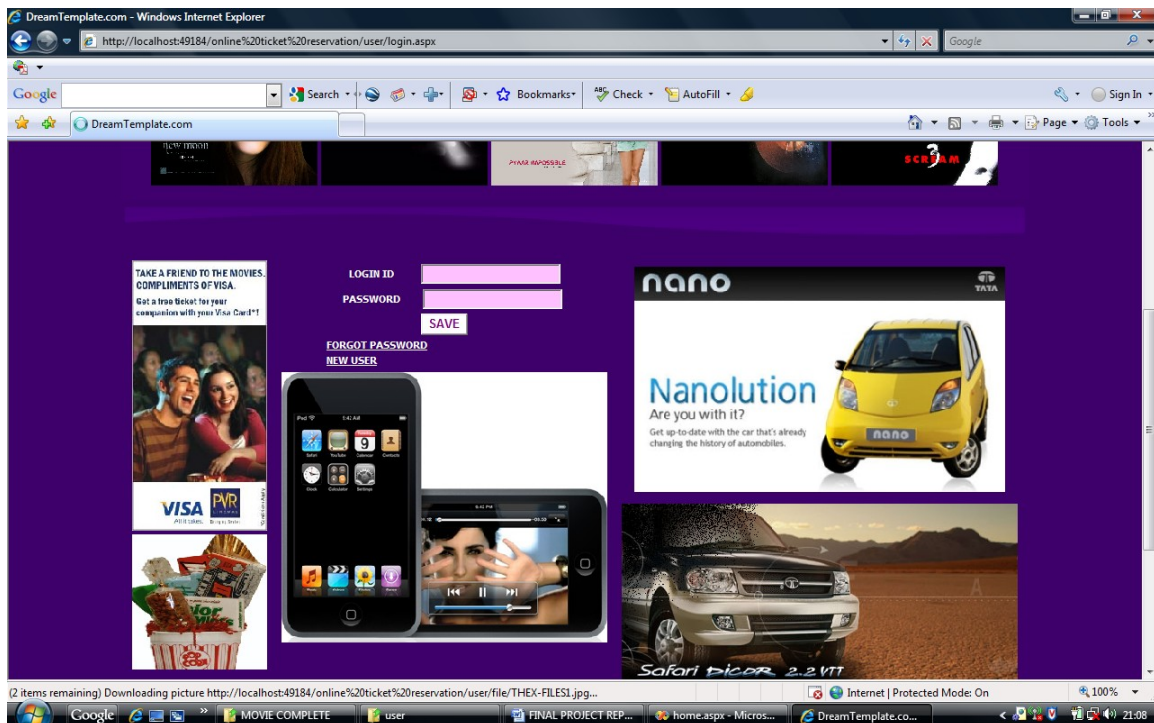
This is the homepage of the website which contains various important links such as login and customer registration. The visitor can also write the comments.

## upcoming.aspx



**Note:**The upcoming page also contains a list of movie images shown with the datalist and by clicking the images the visitor can view all the information related to that particular movie.

## Login.aspx



## Payment.aspx

DreamTemplate.com - Windows Internet Explorer

http://localhost:49184/online%20ticket%20reservation/user/credit1.aspx

Google

DreamTemplate.com

TAKE A FRIEND TO THE MOVIES! COMPLIMENTS OF VISA. Get a free ticket for your companion with your Visa Card!

USER ID: user17

BOOKING ID: book19

CARD NO.:

CARD TYPE: Select

EXPIRY DATE:

USER NAME:

SAVE

nano

Nanolution

Are you with it?

Get up-to-date with the car that's already changing the history of automobiles.

Done

Google

MOVIE COMPLETE

user

FINAL PROJECT ...

home.aspx - Micr...

DreamTemplate...

DreamTemplate...

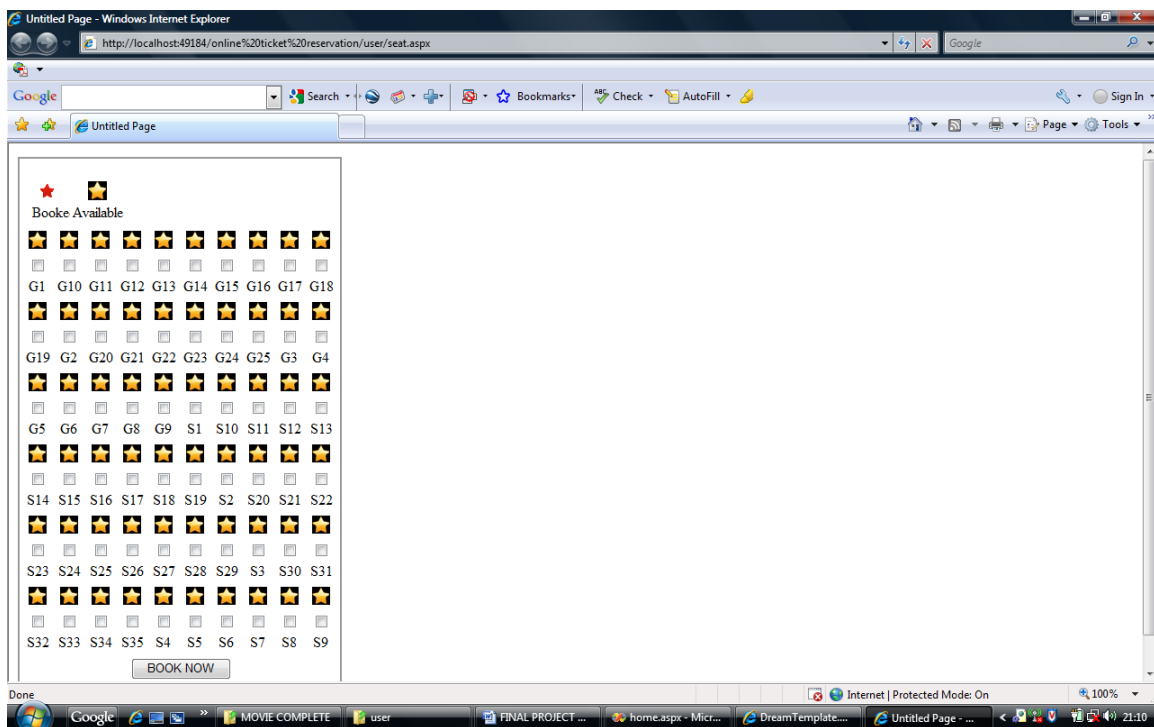
Internet | Protected Mode: On

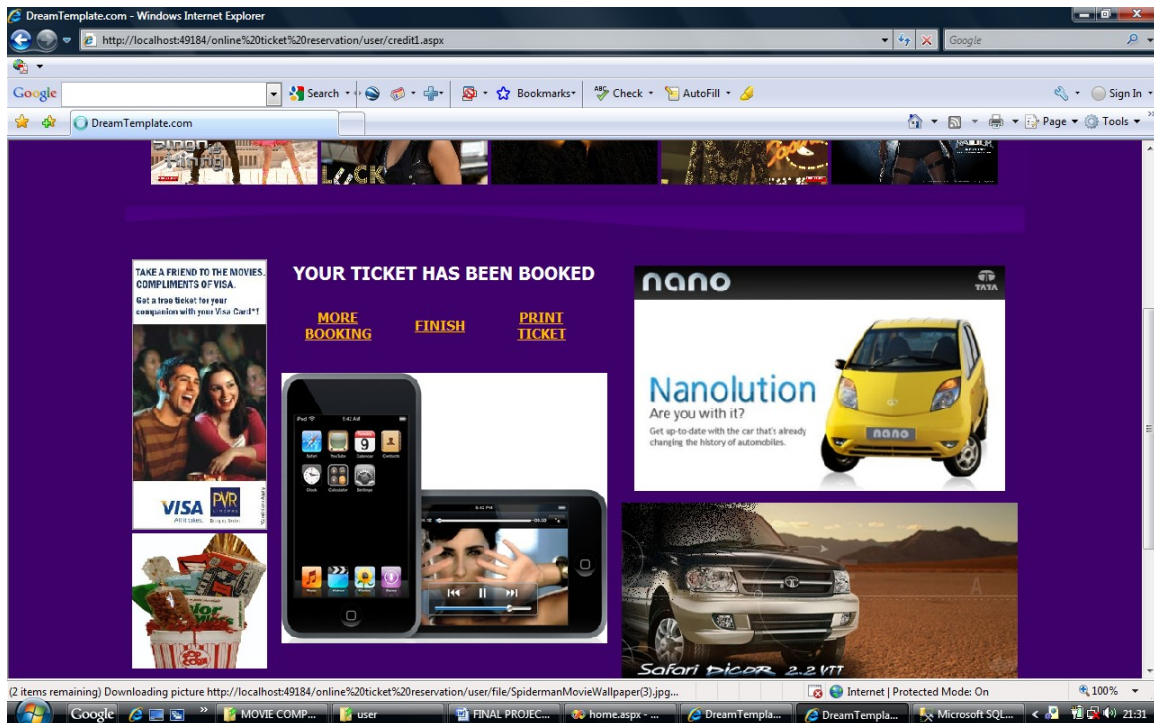
100%

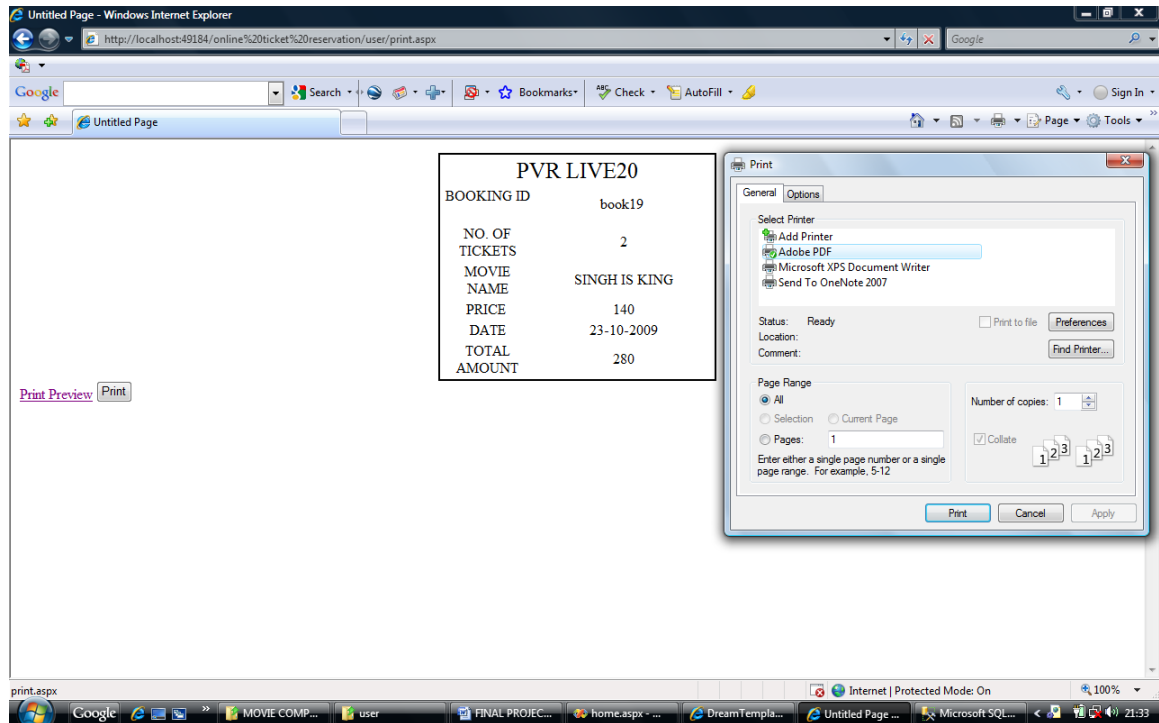
21:12

**NOTE:** Here user can book ticket by giving information about their card like card no, card type exp. Date etc.

## SEAT.ASPX:



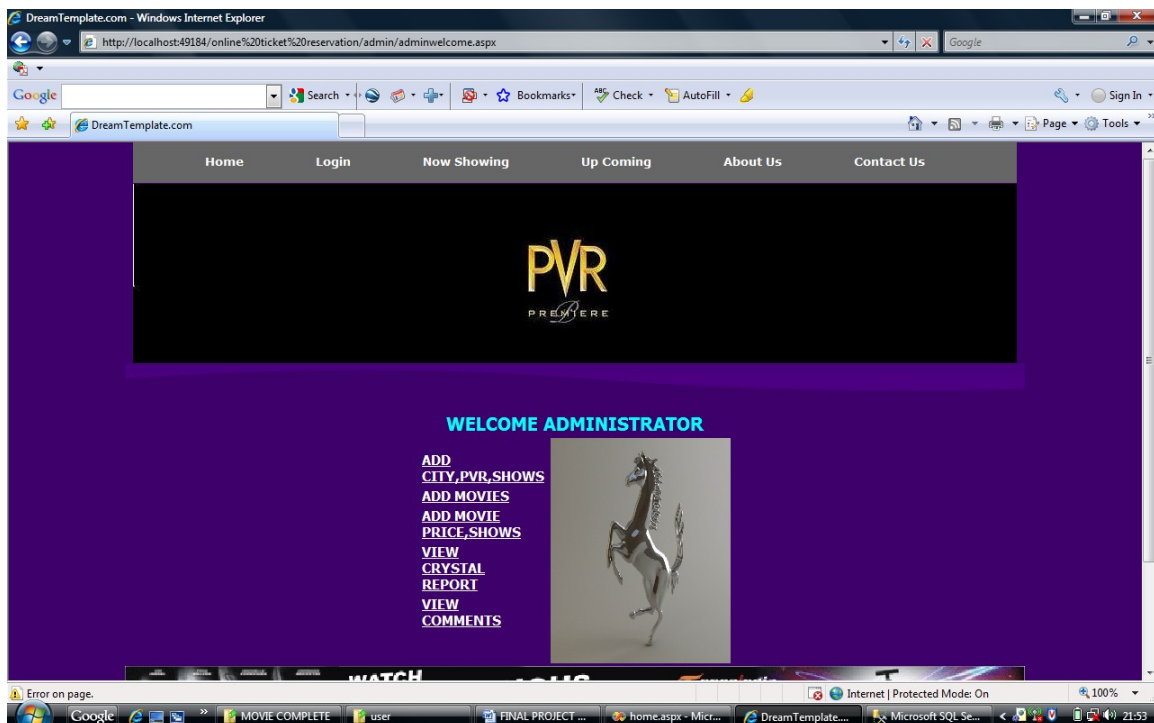
**FINAL.ASPX**

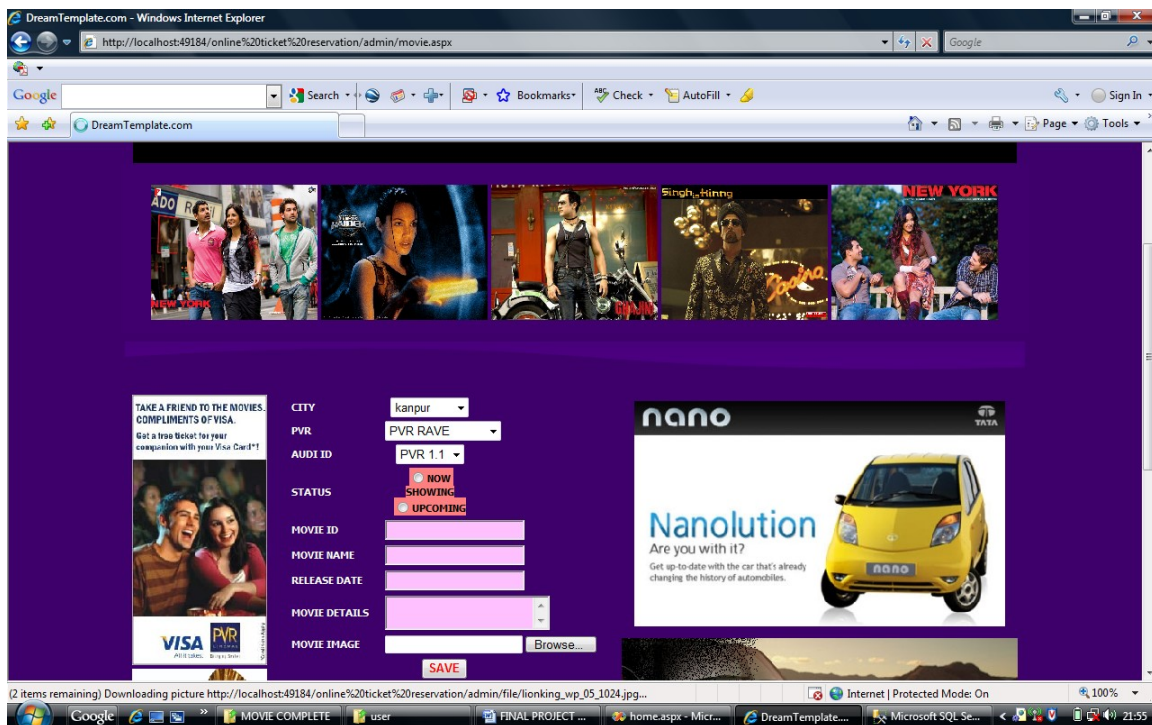
**PRINT TICKET:**



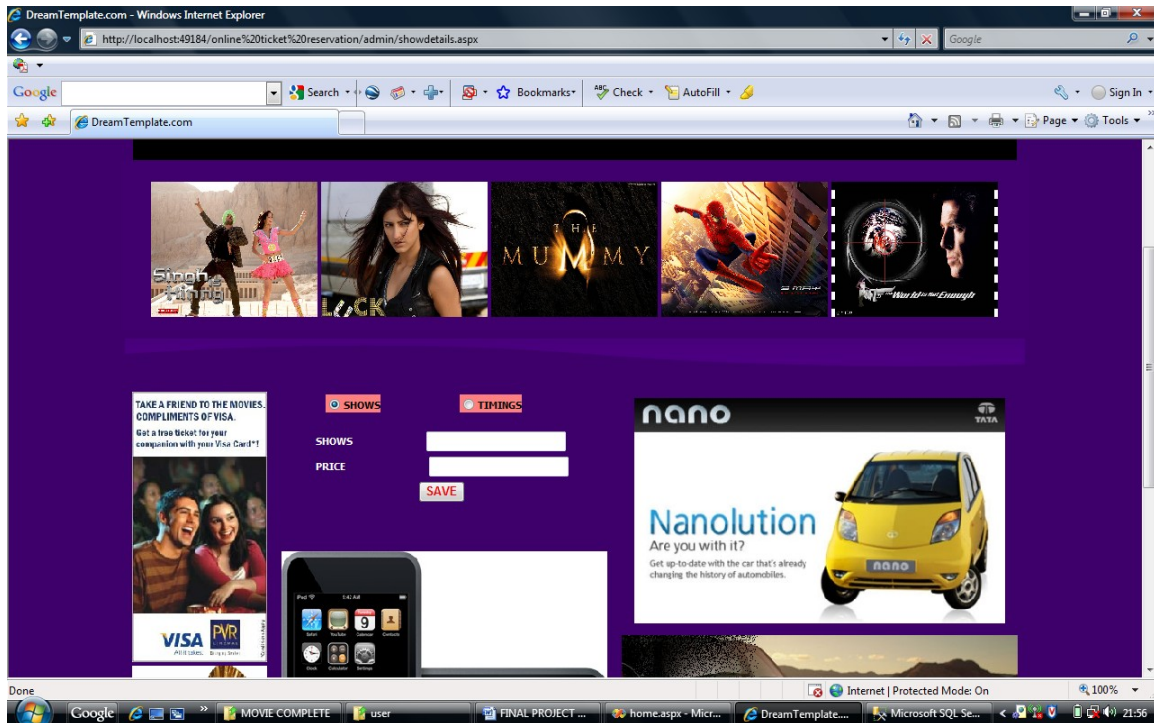
# ADMINISTRATOR END

## ADMIN WELCOME.ASPX



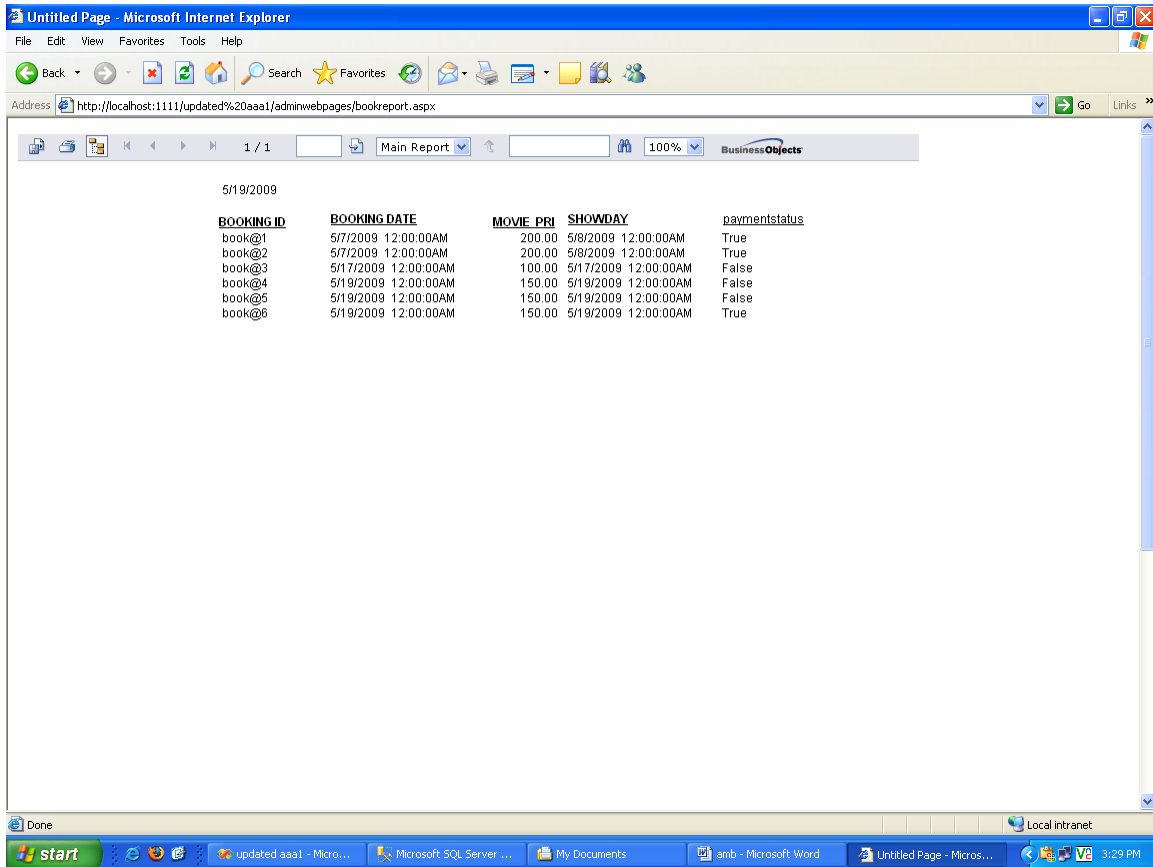
ADDMOVIE.ASPX

## ADD MOVIE PRICE,SHOWS,TIMINGS



# REPORTS

## BOOKINGREPORT



5/19/2009

<u>BOOKING ID</u>	<u>BOOKING DATE</u>	<u>MOVIE PRI</u>	<u>SHOWDAY</u>	<u>paymentstatus</u>
book@1	5/7/2009 12:00:00AM	200.00	5/8/2009 12:00:00AM	True
book@2	5/7/2009 12:00:00AM	200.00	5/8/2009 12:00:00AM	True
book@3	5/17/2009 12:00:00AM	100.00	5/17/2009 12:00:00AM	False
book@4	5/19/2009 12:00:00AM	150.00	5/19/2009 12:00:00AM	False
book@5	5/19/2009 12:00:00AM	150.00	5/19/2009 12:00:00AM	False
book@6	5/19/2009 12:00:00AM	150.00	5/19/2009 12:00:00AM	True

## MOVIE REPORT

5/29/2009

movie_name	movie_id	release_date	theatre_name	city_name
dhoom2	1	5/30/2009	fun	lucknow
13b	2	5/30/2009	fun	lucknow
jab we met	3	6/12/2009	fun	kanpur
tomb rider	4	6/13/2009	pvr	kolkatta

## **Testing**

- **Software testing is a critical element of software quality** assurance and represent the ultimate review of specification, design, coding.
- The purpose of product testing is to verify and validate the various work products viz. units, integrated unit, final product to ensure that they meet their requirements.

**“In E-ticket System For Cinema Halls we used Black Box Testing”.**

## **VALIDATIONS**

- No record can be saved till all the necessary entries are done.
- Only administrator can perform sophisticated tasks like printing of Reports, Register new member and/or delete an existing member etc.
- For security purposes the E-mail of user is required in case he/she forgets his/her password and wants to retrieve that.

### **System Security Measures**

- Security prompting the user for a userid and password in our application is a potential security threat. So credential information is transferred from the browser to server are encrypted.
- Cookies are an easy and useful way to keep user-specific information available. However, because cookies are sent to the browser's computer, they are vulnerable to spoofing or other malicious use. So we follow these guidelines:
- Do not store any critical information in cookies. For example, do not store a user's password in a cookie, even temporarily.

- Avoid permanent cookies if possible. Consider encrypting information in cookies. Set expiration dates on cookies to the shortest practical time we can.

## **Future scope and further enhancement of the Project**

### **Future Scope**

- The project *E-ticket System for Cinema Hall* is flexible enough to meet the requirements of the Customers. This project also has the scope of enhancements like:

1- Home delivery of tickets may be provided.

2 -Online Booking of Purchases of eatables(coldrinks, popcorn etc) can be provided.

3-**Corporate booking:** Multimedia support for corporate presentation can be provided. Conference facility can be provided for corporate meetings in the hall. This will increase the profit of cinema halls as well as the company organizing event.



4 Group booking :Any institute/company can book the tickets for students/clients and special discount will be provided to them.

### **End User Support**

- The proposed system is developed in ASP.NET and SQL Server.
- If organization increases users, it just has to add more machines and install the software on it, which is in the form of exe.

### **Security**

- Security features are implemented. No unauthorized access the package, as the security is implemented through login and password.

### **Further Enhancement of the Project**

Everything that is made has some or the other things to be added to make it better than revolutions.

The project “E-ticket System of Cinema Halls”, it has been tried to develop a robust and fault free system, still enough flexibility has been provided for further enhancements and modifications. As I mentioned earlier then the designed forms are typically reflections of the developer, so I strongly believe that the enhancement to be done with the project to be done with the design changes, coding changes. But at the same time I would like to mention that since one can not claim himself as a master of the technology there is always some scope of technical modifications in the project that may lead to find code redundancy & storage space minimization.

- Since the data is retrieved from the tables where everything is based on the coding system if the coding system is changed then the system needs to be redesigned.

## **BIBLIOGRAPHY**

### **Books**

- Programming in C#,by E.Balagurusamy.
- Database System Concepts, by Korth.
- ASP.Net 2.0 by Blackbook
- Software Engineering by Yogesh Singh and K.K Agarwal